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#2

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/875,453

DATE: 06/21/2001

TIME: 17:23:32

Input Set : A:\4600-0135.30-SEQLIST.txt

Output Set : N:\CRF3\06212001\I875453.raw

ENTERED

```

4 <110> APPLICANT: Kim, Jungsuh P.
5      Starr, Douglas B.
6      Tam, Albert W.
7      Laurance, Megan E.
8      Michelotti, Emil F.
9      Velligan, Mark D.
10     Latour, Derek R.
11     Thomas, Rita L.
12     Kongpachith, Ana
13     Sheppard, Liana T.
14     Lim, Moon Young
15     Bruice, Thomas W.
17 <120> TITLE OF INVENTION: PROMOTERS FOR REGULATED GENE EXPRESSION
20 <130> FILE REFERENCE: 4600-0135.30
C--> 22 <140> CURRENT APPLICATION NUMBER: US/09/875,453
C--> 23 <141> CURRENT FILING DATE: 2001-06-06
25 <150> PRIOR APPLICATION NUMBER: US 60/209,549
26 <151> PRIOR FILING DATE: 2000-06-06
28 <160> NUMBER OF SEQ ID NOS: 78
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33 <211> LENGTH: 1903
34 <212> TYPE: DNA
35 <213> ORGANISM: Homo sapiens
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39 gcgattgtgg gtgctcgggg agtggggggg ggcacgaccg taggtgctcc ctgctggggc      120
40 aaccatcgcc tccccatgcg gaatccgggg gtaattaccc cccaggacc cggaatatta      180
41 gtaatcctaa ttcccgggcg gggagggggc gcgggaggaa ttcacctga aaggtggggg      240
42 tggggggggg cgcattcttc tgtgagcacc ctggcgagg ggagagggt ttttctatca      300
43 gttttctttg agcttttact gttaagaggg tacggtggtt tgatgacact gaactatatt      360
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45 aaagttaaga cagtaaaatg tccttttatt ttttaatgca ccaaagagac agaacctgta      480
46 attttaaaaa ctgtgtatatt taatttacat ctgcttaagt ttgcgataat attggggacc      540
47 ctctcatgta accacgaaca cctatcgatt ttgctaaaaa tcagatcagt aactcgttt      600
48 gtttaattga taattgttct gaattatgcc ggctcctgcc agccccctca cgtcacgaa      660
49 ttcagtccca gggcaaattc taaaggtgaa gggacgtcta ccccccaac aaaaccaatt      720
50 aggaacttcg gtggtcttgt cccaggcaga ggggactaat atttcagca atttaatttc      780
51 ttttttaatt aaaaaaaatg agtcagaatg gagatcactg tttctcagct ttccattcag      840
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53 cccgcaagga ccgactggtc aaggtaggaa ggcagcccga agagtctcca ggctagaagg      960
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56 acccccttgg gcatttgcaa cgacgcccct gtgcgcggga atgaaacttg cacaggggtt      1140
57 gtgtgcccgg tcctccccgt ccttgcatgc taaattagtt cttgcaattt acacgtgtta      1200
58 atgaaaatga aagaagatgc agtcgctgag attctttggc cgtctgtccg cccgtgggtg      1260
59 ccctcgtggc gttcttgga atgcgccc atctgcgggt tggatatggg gtgtcgccgc      1320

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60 gccccagtcac ccccttctcg tggctctccc aggtgcgtg ctgtgccggc ctctctagtt 1380
61 gtccccctact gcagagccac ctccacctca cccctaaat cccgggggac ccactcgagg 1440
62 cggacggggc cccctgcacc cctcttccct ggcggggaga aaggctgcag cggggcgatt 1500
63 tgcatttcta tgaaccgg actacagggg caactccgcc gcagggcagg cgcggcgctt 1560
64 cagggatggc ttttgggtc tgccctcgc tgctccggc gtttggcgcc cgcgccccct 1620
65 cccctgcgc cgcgggggc cccctcccg ctccattct ctgcccggct ttgatctttg 1680
66 cttaacaaca gtaacgtcac acggactaca ggggagttt gttgaagttg caaagtcctg 1740
67 gagcctccag agggctgtcg gcgcagtagc agcgagcagc agagtcgca cgcctccggc 1800
68 aggggcagaa gagcgcgagg gagcgcgggg cagcagaagc gagagccgag cgcggaccca 1860
69 gccaggaccc acagccctcc ccagctgccc aggaagagcc cca 1903
71 <210> SEQ ID NO: 2
72 <211> LENGTH: 32
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: primer
79 <400> SEQUENCE: 2
80 gcacgcgtgc tagccagctg ggccgccctt gt 32
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83 <211> LENGTH: 32
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: primer
90 <400> SEQUENCE: 3
91 atccatggaa gctttggggc tcttcctggg ca 32
93 <210> SEQ ID NO: 4
94 <211> LENGTH: 34
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: primer
101 <400> SEQUENCE: 4
102 gcacgcgtgc tagctggagc ctccagaggg ctgt 34
104 <210> SEQ ID NO: 5
105 <211> LENGTH: 10
106 <212> TYPE: DNA
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109 <400> SEQUENCE: 5
110 gagttttgtt 10
112 <210> SEQ ID NO: 6
113 <211> LENGTH: 7
114 <212> TYPE: DNA
115 <213> ORGANISM: Homo sapiens
117 <400> SEQUENCE: 6
118 gagtttt 7
120 <210> SEQ ID NO: 7
121 <211> LENGTH: 16
122 <212> TYPE: DNA

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123 <213> ORGANISM: Homo sapiens
125 <400> SEQUENCE: 7
126 cagtaacgtc acacgg                                     16
128 <210> SEQ ID NO: 8
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131 <213> ORGANISM: Homo sapiens
133 <400> SEQUENCE: 8
134 cctccagagg                                             10
136 <210> SEQ ID NO: 9
137 <211> LENGTH: 2395
138 <212> TYPE: DNA
139 <213> ORGANISM: Homo sapiens
141 <400> SEQUENCE: 9
142 gaattcactg gggagagcat tcaggaagat gacaacagga taatagggtca acagagtaat      60
143 agagagggtcg ctaaaaataa actctaagaa gtattcagcc aaaactatta ttgagctaata      120
144 aatggtggga tcaatttcag ggggaatattg tgggcagaag tcagactgta ggaggctggg      180
145 gatcaagaag ttgaggcaag gaggttggac aacaactgtt ttttcaagtt ggtcacgtga      240
146 acaaatctgt gaccttcagc ctccccctccc tcgggtcttg gctgagctga ttgcagggcc      300
147 cctgcagctc tggcactctc aagttgtata aaactgacag tgcagaagtc cttgagccca      360
148 ttttggctct catgataatt ttcccttcagt ggaactaagg ttacttgtct aagaacccaa      420
149 gcctctgaact tgactgatca aagttcatca cgtgcacga agccacctac ttggcagatg      480
150 tagtgaaaag ctacatagat ctgggccag gacaggatgc tggggcgtgg gaggggaaga      540
151 aagcagggtgc taactatata gatagcatgc ctatcagagc agtttttacg tttcctattt      600
152 gtctctcaaa acaattttat aggaatcatc aaagcaattt tatcatgggt tctagaccag      660
153 gtttggatgt gaggtagggg tttccacagc tgcttttagt ttgaaggaaa tctgataaga      720
154 tgatgcaaaa gcccttcaga aatgtgtaat cctacacact tcagtgattc aattcattgt      780
155 caaaacttaa ggtgttttta atattgttat tgttcatttg gtttttacca acatgtaagg      840
156 agttggcaat tatttgttta actcatgtct taggctaaat aaattccaaa aaattcagga      900
157 tgagaattgt ttattgctta acgtgtgtca aatttcttcc atgcacatct ttattagatc      960
158 ttcacagcaa cctacaggat aagcaagaca ggtgcaagtg cctcctttgg gtatgaggaa      1020
159 aatgagggtct aaagagatga agtgatttgc ccaaggctca tagcaattta ttggtagagc      1080
160 aaagactaga attctcttaa ctgcagccta ttttccctat tctgaactgt tacatcagca      1140
161 tcaacaatta tctaattgat tggaaacagt tacacaggca gcttagctac gtcaagtcac      1200
162 gatttttact ttaacttcaa ttccagagtc ttggcctgat ttccctcaag accctactta      1260
163 tctttggctt tggaaaattt atttttcttg cattatcttt ccagctaaat tttatttaat      1320
164 aaccatcagc atgctttttt tgctttatgc catgtagact tgacctgaaa acctgccagg      1380
165 ctttcattga gtttagtgat taaagaagta aagttctgag aagcaattag ttgatgggac      1440
166 accagtcata aaatcaatcc aaacttttgt tgacatgtgt ttctttctcc atataccagg      1500
167 ttcccgttcc gtattagtaa gattgaaatt gaaataagtc tattgctggt ggatgaattt      1560
168 gtcactttcc ttgaaactgg tgaacccaaa aagttagaca gtgataggaa aatactgcca      1620
169 ttgtctgtta agaagtctat gacatttcaa ggcaagaatg aatatatgga agaagaaact      1680
170 tgttttcttct ttacttacaa aaaggaaagc ctggaagtga atgatatggg tataattaaa      1740
171 aaaaaaaaaa aaaacaaaaa acctttacgt aacgttttgc tgggagagaa gactacgaag      1800
172 cacattttcc aggaagtgtg ggctgcaacg attgtgctgt ctttaactaat cctgagtaag      1860
173 gtggccactt tgacagtctt ctcatgctgc ctctgccacc ttctctgcca gaagatacca      1920
174 tttcaacttt aacacagcat gatcgaaaca tacaacccaa cttctccccg atctgcggcc      1980
175 actggactgc ccatcagcat gaaaattttt atgtattttac ttactgtttt tcttatcacc      2040
176 cagatgattg ggtcagcact ttttgctgtg tatcttcata gaaggctgga caaggttaaga      2100

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177 tgaaccacaa gcctttatta actaaatttg gggtccttac taattcatag gttggttcta 2160
178 cccaaatgat ggatgatggt agaaacaaa tagaagaatg gtcttggtgc ataatgtttg 2220
179 ttccctagtc aatgaactct catattottg tctctggtta ggatcttggg atctggagtc 2280
180 agactgcctg ggctcaaate ttggctctgc ccataccatc tctgttatcc tggggcaagt 2340
181 gcctcagttt ccacatctga gaaatgggga tggtagtggt gtccatttca tagat 2395
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184 <211> LENGTH: 36
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: primer
191 <400> SEQUENCE: 10
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194 <210> SEQ ID NO: 11
195 <211> LENGTH: 36
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: primer
202 <400> SEQUENCE: 11
203 tgaatcacga agctttggta tcttctggca gagaag 36
205 <210> SEQ ID NO: 12
206 <211> LENGTH: 24
207 <212> TYPE: DNA
208 <213> ORGANISM: Homo sapiens
210 <400> SEQUENCE: 12
211 gatgaatttg tcactttcct tgaa 24
213 <210> SEQ ID NO: 13
214 <211> LENGTH: 20
215 <212> TYPE: DNA
216 <213> ORGANISM: Homo sapiens
218 <400> SEQUENCE: 13
219 gacatttcaa ggcaagaatg 20
221 <210> SEQ ID NO: 14
222 <211> LENGTH: 35
223 <212> TYPE: DNA
224 <213> ORGANISM: Homo sapiens
226 <400> SEQUENCE: 14
227 acatttcaag gcaagaatga atatatggaa gaaga 35
229 <210> SEQ ID NO: 15
230 <211> LENGTH: 37
231 <212> TYPE: DNA
232 <213> ORGANISM: Homo sapiens
234 <400> SEQUENCE: 15
235 tacgaagcac attttccagg aagtgtgggc tgcaacg 37
237 <210> SEQ ID NO: 16
238 <211> LENGTH: 250
239 <212> TYPE: DNA
240 <213> ORGANISM: Hepatitis B virus

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Input Set : A:\4600-0135.30-SEQLIST.txt

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242 <400> SEQUENCE: 16
243 gcacgtcgca tggagaccac cgtgaacgcc caccaaatat tgcccaaggt cttacataag      60
244 aggactcttg gactctcagc aatgtcaacg accgaccttg aggcatactt caaagactgt      120
245 ttgttttaaag actgggagga gttgggggag gagattaggt taaaggctctt tgtactagga      180
246 ggctgtaggc ataaattggt ctgcgcacca gcaccatgca actttttcac ctctgcctaa      240
247 tcactctcttg                                     250
249 <210> SEQ ID NO: 17
250 <211> LENGTH: 12
251 <212> TYPE: DNA
252 <213> ORGANISM: Hepatitis B virus
254 <400> SEQUENCE: 17
255 gactgtttgt tt                                     12
257 <210> SEQ ID NO: 18
258 <211> LENGTH: 12
259 <212> TYPE: DNA
260 <213> ORGANISM: Hepatitis B virus
262 <400> SEQUENCE: 18
263 aggactcttg ga                                     12
265 <210> SEQ ID NO: 19
266 <211> LENGTH: 15
267 <212> TYPE: DNA
268 <213> ORGANISM: Hepatitis B virus
270 <400> SEQUENCE: 19
271 tacttcaaag actgt                                     15
273 <210> SEQ ID NO: 20
274 <211> LENGTH: 23
275 <212> TYPE: DNA
276 <213> ORGANISM: Hepatitis B virus
278 <400> SEQUENCE: 20
279 tacttcaaag actgtttggt taa                         23
281 <210> SEQ ID NO: 21
282 <211> LENGTH: 15
283 <212> TYPE: DNA
284 <213> ORGANISM: Hepatitis B virus
286 <400> SEQUENCE: 21
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289 <210> SEQ ID NO: 22
290 <211> LENGTH: 156
291 <212> TYPE: DNA
292 <213> ORGANISM: Hepatitis B virus
294 <400> SEQUENCE: 22
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297 accatattct tgggaacaag atctacagca tggggc          156
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300 <211> LENGTH: 15
301 <212> TYPE: DNA
302 <213> ORGANISM: Hepatitis B virus
304 <400> SEQUENCE: 23

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/875,453

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Input Set : A:\4600-0135.30-SEQLIST.txt

Output Set: N:\CRF3\06212001\I875453.raw

L:22 M:270 C: Current Application Number differs, Replaced Current Application Number

L:23 M:271 C: Current Filing Date differs, Replaced Current Filing Date